

Traffic and service facility tables

Definitions

Four sets of traffic tables are included in this publication. Each table specifies whether queuing (that is, Ring Again) is to be used and the effective size of the calling population generating the traffic. **Table 1** presents the table numbers that correspond to these respective characteristics.

Table 1
Traffic table cross-reference

	Size of call population	
	Infinite	Finite
No Queuing	Table 4	Tables 6 through 15
With Queuing	Table 5	Tables 16 through 25

Queuing

To activate queuing on the Meridian 1, use the Ring Again feature. The queuing time is the time from which Ring Again is initiated until a service facility or station becomes available. Because more traffic can be carried when queuing is used, fewer service facilities are required for the same level of traffic.

Calling population

The size of the calling population is important because the size affects the rate at which traffic is generated. The calling population consists of the telephones, terminals, or both, to be considered.

Infinite population

The term “infinite” is used to imply a large number. A population is considered infinite when the overall calling rate is not affected when one member of the population goes into service; that is, each individual telephone or terminal has little impact on the overall system. Almost all voice systems are assumed to have “infinite” populations.

Finite population

A “finite” population is defined as one where the calling rate is affected when a member goes into service. Because each member of the population is such a large percentage of the total, the calling rate decreases when a member goes into service since there is respect to the “finite” tables, the number in source is the number of telephones or terminals being considered. The number in the source in the tables goes up to 50. For numbers above 50, the results from finite population assumptions begin to converge with the results from the infinite population assumptions.

Population size tables

As a general rule, the “infinite” tables should be used for population sizes of more than 50 and “finite” tables for population sizes of 50 and below. More traffic is carried when the population is “finite.” Therefore, fewer service facilities are required from the same level of traffic.

Traffic table format

Traffic **Tables 4** through **25** follow the same basic format. The table title identifies which of the two characteristics (that is, queuing or no queuing and infinite or finite) apply to that table. Finite source **Tables 6** through **25** are explicitly labeled as such. The finite source tables also have the number in the source printed in the table heading. The infinite source **Tables 4** and **5** are not explicitly labeled.

These traffic tables present the maximum CCS load that can be offered to a specified number of service facilities (such as trunk, ports, or modem pools) and still meet a specified grade of service. Of the seven columns per table, the left-hand column gives the number of service facilities. The remaining six columns present CCS values for six different grades of service. For no queuing, the GOS is blocking probability and the column heading is “0.XXX,” where XXX is the blockage value. For queuing, the GOS is a ratio of the average queuing time (or delay) divided by the average holding time per call. The column heading is “X.XX,” where D/HT is delay divided by holding time and X.XX is the ratio. To determine, for example, the maximum CCS that could be offered when each call averages 10 minutes with a delay of 5 minutes, refer to the column labeled “0.50.”

Note: The queuing delays are averaged over all calls and not just for the calls which are delayed.

Values for traffic offered are presented in the traffic tables. With queuing, the traffic carried equals the traffic offered. With no queuing, the traffic carried equals the traffic offered multiplied by $(1 - \text{GOS})$. For example, at P.02, if 100 CCS of traffic is offered, then $100 \times (1 - .02) = 100 \times .98 = 98$, and 98 CCS of traffic is carried.

As stated earlier, queuing permits circuits to carry more traffic than when no queuing is allowed. Also, as the average call holding time increases (that is, the D/HT decreases), the amount of traffic decreases. **Tables 4 through 25** were produced using the generally accepted formulas in the telephone industry. **Table 2** below shows the formulas used.

Table 2
Traffic table formulas

Size of population		
	Infinite	Finite
No queuing	ERLANG B (blocked calls cleared) Table 4	ENGSET (blocked calls cleared) Tables 6 through 15
With queuing	ERLANG C (blocked calls delayed) Table 5	ENGSET (blocked calls delayed)

Examples of use

Tables 4 through 25 can be used in the following ways:

- To determine how much traffic can be offered to a specified number of service facilities at a specified GOS, go down the left-hand column to the number of service facilities and read the value out of the appropriate GOS column.
- For grades of service not listed, interpolate between adjacent columns.
- To determine the number of service facilities required to handle a specified amount of traffic, first convert the traffic figure into the offered CCS, and then go down the appropriate GOS column until the first value that equals or exceeds that traffic value is located. Then read the required number of service facilities from the left-most column on the same line.

The following five sample cases illustrate various ways the traffic tables can be used.

CASE 1

Assume

25 time-sharing terminals

20 minutes average holding time per call

5 calls per day per terminal evenly spread over an 8 hour day

Problem

Determine the required number of computer ports if there is

- 1 No queuing and a P.05 GOS
- 2 Queuing and an average delay of 10 minutes
- 3 Queuing and an average delay of 5 minutes

Solution

Total hours of usage = (25 terminals) (1/3 hr per call) (5 calls) = 41.67 hr

Hourly CCS = (41.67 hr) (36 CCS per hr)/(8 hr) = 187.5 CCS or 188 CCS

With only 20 terminals, the finite source tables should be used.

- 1 Using **Table 10**, 188 CCS at P.05 requires 9 ports
- 2 $D/HT = 10 \text{ min} / 20 \text{ min} = 0.5$
- 3 Using **Table 20**, 188 CCS with $D/HT = 0.5$ requires 6 ports
- 4 $D/HT = 5 \text{ min} / 20 \text{ min} = 0.25$
- 5 Using **Table 20**, 188 CCS with $D/HT = 0.25$ requires 7 ports

CASE 2

Assume

An inquiry application with a large number of terminals currently uses dial-up modem to gain access to the computer. Sixty-four ports are now allocated to this function, and the blockage is thought to be about 5.

Problem

Determine the percentage of traffic increase realized if Ring Again is used to queue for the ports? Assume a D/HT ratio of 1.

Solution

Because there are a large number of terminals, the infinite source tables should be used.

From **Table 4**, 64 ports at P.05 can carry: $(2109.6 \text{ CCS}) (.95) = 2004 \text{ CCS}$.

From **Table 5**, 64 ports at a D/HT ratio of 1 can carry 2272.6 CCS.

Therefore, the percentage increase is

$$2272.6 - 2004 / 2004 \times 100 = 13.4\%$$

Note: The Meridian data feature can be justified by showing an increased use of computer resources via Ring Again.

CASE 3

Assume

A company uses 10 computer terminals to access a computer at the plant as well as a computer at a distant location. About 10 percent of the time, the distant computer is used.

Each terminal is used approximately 45 minutes per hour. Each terminal is connected about 30 minutes per session.

Problem

Determine the number of ADMs required for this application if a 15-minute delay is acceptable.

Solution

Total hourly usage = (10 terminals) (3/4 hours) = 7.5 hr

Remote usage = (10.) (7.5) = 0.75 hr

Local usage = (90.) (7.5) = 6.75 hr

Remote CCS = (0.75) (36) = 27 CCS

Local CCS = (6.75) (36) = 243 CCS

Each terminal requires an ADM. The remote traffic would use a modem pool. The local traffic would use hunting for computer ports, each port with an ADM.

A 15 minute average queuing delay gives $D/HT = 0.5$.

Using **Table 17**, 2 ADMs are required for the remote modem pool and 7 ADMs are required for local.

Therefore, a total of 9 ADMs are required.

CASE 4**Assume**

A customer has 32 terminals accessing 16 computer ports. Each terminal generates about 12 CCS during the busy hour.

Problem

Determine the expected blockage when queuing is not used.

Solution

Total offered CCS = (32 terminals) (12 CCS) = 384 CCS

Because there are tables for only 30 and 35 terminals in the source, we must interpolate.

A summary of the CCS values for 16 ports from **Tables 12 and 13** are:

Number in source	P.01	P.02
35	360.0	391.9
30	369.2	400.4

Interpolation between 30 and 35 (that is, two-fifths of the difference between the two values) gives

32	365.5	397.0
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Because 384 CCS lies between 365.5 CCS and 397.0 CCS, the blockage probability will lie between P.01 and P.02. Interpolating again between P.01 and P.02 gives

$$384 - 365.5 / 397 - 365.5 = X - .01 / .02 - .01$$

$$.587 = X - .01 / .01$$

$$\text{Therefore, } X = .01 + (.587) (.01) = .0159$$

X is the expected blockage.

Note: The actual blockage value is .0154.

CASE 5

Assume

Use the information in Case 4 (that is, 16 computer ports and 12 CCS per terminal).

Problem

How many terminals can be supported if

- 1 Blockage is allowed to increase to P.05?
- 2 Ring Again is used, and the average delay is twice the call holding time?

Solution

Divide the total CCS by 12 CCS, and compare the result with the entries in our tables at the given GOS and the number in source for 16 ports.

- 1 Use the following:

Table	Number in source	CCS at P.05	Number of terminals
10	25	467	38.9
11	30	455	38.0
12	35	448	37.3
13	40	443	36.9
14	45	439	36.6
15	50	436	36.4

The number in the source matches the number of terminals at about 37 terminals. Therefore, approximately 37 terminals can be supported at a P.05 GOS.

- 2 Using the queuing finite tables for 2.00 and for 16 computer ports, 576 CCS can be offered (and carried).

Therefore, the number of terminals that can be supported is $576 / 12 = 48$.

By looking at **Tables 24** and **25**, we see that the 576 CCS value occurs for 1.00, 2.00, and 4.00 (for 16 ports). The CCS value for 0.75 is almost 576 CCS. This means that the maximum average delay experienced by 45 or 50 terminals is just over 75 of the average holding time. Once a group of circuits or ports is at full capacity, this capacity cannot be increased (576 CCS = 16 ports x 36 CCS).

Table 3
CCS capacities per loop (Part 1 of 3)

Blockage (GOS)	Number of loops							
	2	3	4	5	6	7	9	12
0.0025	488	503	511	518	523	526	531	536
0.0050	520	535	544	550	554	557	562	566
0.0075	540	555	564	570	574	577	582	586
0.0100	555	570	579	585	589	592	596	600
0.0125	567	582	591	597	601	604	608	612
0.0150	578	592	601	607	611	614	618	622
0.0175	587	601	610	615	619	622	626	630
0.0200	594	609	618	623	627	630	634	638
0.0225	602	616	625	630	634	637	641	645
0.0250	608	623	631	637	640	643	647	651
0.0275	614	629	637	643	646	649	653	657
0.0300	620	634	643	648	652	655	659	662
0.0325	625	639	648	653	657	660	664	667
0.0350	630	644	653	658	662	665	668	672
0.0375	634	649	657	663	666	669	673	676
0.0400	639	653	662	667	671	673	677	681

Table 3
CCS capacities per loop (Part 2 of 3)

Blockage (GOS)	Number of loops							
	2	3	4	5	6	7	9	12
0.0425	643	657	666	671	675	677	681	685
0.0450	647	661	670	675	679	681	685	688
0.0475	651	665	673	679	682	685	689	692
0.0500	654	669	677	682	686	689	692	696
0.0525	658	672	681	686	689	692	696	699
0.0550	661	676	684	689	693	695	699	702
0.0575	664	679	687	692	696	699	702	706
0.0600	667	682	690	696	699	702	705	709
0.0625	671	685	693	699	702	705	708	712
0.0650	674	688	696	701	705	708	711	714
0.0675	676	691	699	704	708	711	714	717
0.0700	679	694	702	707	711	713	717	720
0.0725	682	697	705	710	713	716	719	723
0.0750	685	699	707	712	716	719	722	725
0.0775	687	702	710	715	719	721	725	728

Table 3
CCS capacities per loop (Part 3 of 3)

Blockage (GOS)	Number of loops							
	2	3	4	5	6	7	9	12
0.0800	690	704	712	717	721	724	727	730
0.0825	692	707	715	720	723	726	729	733
0.0850	695	709	717	722	726	728	732	735
0.0875	697	711	720	725	728	731	734	737
0.0900	699	714	722	727	730	733	736	739
0.0925	701	716	724	729	733	735	739	742
0.0950	704	718	726	731	735	737	741	744
0.0975	706	720	728	733	737	739	743	746
0.1000	708	723	731	736	739	742	745	748
Note: This table lists average values; these values may vary according to specific user requirements.								

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 1 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.7	1.1	1.9	4.0
2	3.8	5.5	8.0	10.1	13.7	21.4
3	12.6	16.4	21.7	25.7	32.4	45.7
4	25.2	31.3	39.3	45.3	54.9	73.6
5	40.8	49.0	59.7	67.5	79.9	103.7
6	58.4	68.7	81.9	91.5	106.6	135.3
7	77.7	90.0	105.7	117.0	134.6	168.0
8	98.3	112.6	130.6	143.5	163.5	201.5
9	120.0	136.2	156.4	170.9	193.3	235.7
10	142.6	160.6	183.0	199.1	223.8	270.4
11	166.0	185.8	210.3	227.8	254.8	305.5
12	190.0	211.5	238.1	257.1	286.2	341.1
13	214.7	237.9	266.5	286.8	318.1	376.9
14	239.9	264.7	295.2	316.9	350.3	413.0
15	265.5	291.9	324.3	347.4	382.8	449.4
16	291.6	319.5	353.8	378.2	415.6	486.0
17	318.0	347.5	383.6	409.3	448.6	522.8
18	344.8	375.7	413.7	440.6	481.9	559.7
19	371.9	404.3	444.0	472.1	515.3	596.8
20	399.3	433.1	474.5	503.9	549.0	634.1
21	427.0	462.2	505.3	535.9	582.8	671.4

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 2 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
22	454.9	491.4	536.3	568.0	616.8	708.9
23	483.0	520.9	567.4	600.3	650.9	746.5
24	511.3	550.6	598.7	632.8	685.1	784.2
25	539.9	580.5	630.2	665.4	719.5	822.0
26	568.6	610.5	661.8	698.1	753.9	859.9
27	597.5	640.7	693.5	731.0	788.5	897.8
28	626.6	671.1	725.4	764.0	823.2	935.8
29	655.8	701.5	757.4	797.0	858.0	973.9
30	685.2	732.1	789.5	830.2	892.9	1012.1
31	714.7	762.9	821.8	863.5	927.8	1050.3
32	744.4	793.7	854.1	896.9	962.8	1088.5
33	774.2	824.7	886.5	930.4	997.9	1126.8
34	804.1	855.8	919.0	963.9	1033.1	1165.2
35	834.1	887.0	951.7	997.6	1068.4	1203.6
36	864.2	918.3	984.4	1031.3	1103.7	1242.1
37	894.5	949.6	1017.1	1065.1	1139.0	1280.6
38	924.8	981.1	1050.0	1098.9	1174.4	1319.1
39	955.2	1012.6	1082.9	1132.8	1209.9	1357.7
40	985.7	1044.3	1115.9	1166.8	1245.5	1396.4
41	1016.3	1076.0	1149.0	1200.9	1281.0	1435.0
42	1047.0	1107.8	1182.1	1235.0	1316.7	1473.7

Table 4**Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 3 of 9)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
43	1077.8	1139.6	1215.3	1269.1	1352.3	1512.4
44	1108.7	1171.6	1248.5	1303.3	1388.1	1551.2
45	1139.6	1203.5	1281.8	1337.6	1423.8	1589.9
46	1170.6	1235.6	1315.2	1371.9	1459.6	1628.7
47	1201.7	1267.7	1348.6	1406.2	1495.5	1667.6
48	1232.8	1299.9	1382.1	1440.6	1531.3	1706.4
49	1264.1	1332.2	1415.6	1475.1	1567.2	1745.3
50	1295.3	1364.5	1449.2	1509.6	1603.2	1784.2
51	1326.7	1396.8	1482.8	1544.1	1639.2	1823.2
52	1358.1	1429.2	1516.5	1578.7	1675.2	1862.1
53	1389.6	1461.7	1550.2	1613.3	1711.2	1901.1
54	1421.1	1494.2	1583.9	1647.9	1747.3	1940.1
55	1452.6	1526.7	1617.7	1682.6	1783.4	1979.1
56	1484.2	1559.3	1651.5	1717.3	1819.6	2018.1
57	1515.9	1592.0	1685.4	1752.1	1855.7	2057.2
58	1547.6	1624.7	1719.3	1786.9	1891.9	2096.3
59	1579.4	1657.4	1753.2	1821.7	1928.1	2135.3
60	1611.2	1690.2	1787.2	1856.5	1964.4	2174.4
61	1643.1	1723.0	1821.2	1891.4	2000.6	2213.6
62	1675.0	1755.9	1855.2	1926.3	2036.9	2252.7
63	1707.0	1788.7	1889.3	1961.2	2073.2	2291.9

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 4 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
64	1739.0	1821.7	1923.4	1996.2	2109.6	2331.0
65	1771.0	1854.7	1957.5	2031.2	2145.9	2370.2
66	1803.1	1887.7	1991.7	2066.2	2182.3	2409.4
67	1835.2	1920.7	2025.9	2101.2	2218.7	2448.6
68	1867.4	1953.8	2060.1	2136.3	2255.1	2487.8
69	1899.6	1986.9	2094.4	2171.4	2291.6	2527.0
70	1931.8	2020.0	2128.7	2206.5	2328.0	2566.3
71	1964.1	2053.2	2163.0	2241.6	2364.5	2605.5
72	1996.4	2086.4	2197.3	2276.8	2401.0	2644.8
73	2028.7	2119.7	2231.6	2312.0	2437.5	2684.1
74	2061.1	2152.9	2266.0	2347.2	2474.0	2723.4
75	2093.5	2186.2	2300.4	2382.4	2510.6	2762.7
76	2126.0	2219.5	2334.8	2417.6	2547.1	2802.0
77	2158.4	2242.9	2369.3	2452.9	2483.7	2841.3
78	2190.9	2286.2	2403.8	2488.2	2620.3	2880.6
79	2223.5	2319.6	2438.3	2523.5	2656.9	2920.0
80	2256.0	2353.1	2472.8	2558.8	2693.5	2959.3
81	2288.6	2386.5	2507.3	2594.1	2730.2	2998.7
82	2321.3	2420.0	2541.9	2629.9	2766.8	3038.0
83	2353.9	2453.5	2576.4	2664.9	2803.5	3077.4
84	2386.6	2487.0	2611.0	2700.2	2840.2	3116.8

Table 4**Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 5 of 9)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
85	2419.3	2520.6	2645.7	2735.7	2876.8	3156.2
86	2452.0	2554.1	2680.3	2771.1	2913.6	3195.6
87	2484.8	2587.7	2714.9	2806.5	2950.3	3235.0
88	2517.6	2621.3	2749.6	2842.0	2987.0	3274.4
89	2550.4	2655.0	2784.3	2877.5	3023.7	3313.8
90	2583.2	2688.6	2819.0	2912.9	3060.5	3353.3
91	2616.1	2722.3	2853.7	2984.4	3097.3	3392.7
92	2648.9	2756.0	2888.5	2984.0	3134.0	3432.2
93	2681.8	2789.7	2923.2	3019.5	3170.8	3471.6
94	2714.8	2823.5	2958.0	3055.0	3207.6	3511.1
95	2747.7	2857.2	2992.8	3090.6	3244.4	3550.5
96	2780.7	2891.0	3027.6	3126.2	3281.3	3590.0
97	2813.7	2924.8	3062.4	3161.8	3318.1	3629.5
98	2846.7	2958.6	3097.3	3197.4	3354.9	3669.0
99	2879.7	2992.5	3132.1	3233.0	3391.8	3708.5
100	2912.8	3026.3	3167.0	3268.6	3428.7	3748.0
101	2945.9	3060.2	3201.9	3304.2	3465.5	3787.5
102	2978.9	3094.1	3236.8	3339.9	3502.4	3827.0
103	3012.1	3128.0	3271.7	3375.5	3539.3	3866.5
104	3045.2	3161.9	3306.6	3411.2	3576.2	3906.0
105	3078.3	3195.8	3341.5	3446.9	3613.1	3945.5

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 6 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
106	3111.5	3229.8	3376.5	3482.6	3650.0	3985.0
107	3144.7	3263.8	3411.5	3518.3	3687.0	4024.6
108	3177.9	3297.7	3446.4	3554.0	3723.9	4064.1
109	3211.2	3331.7	3481.4	3589.7	3760.8	4103.7
110	3244.4	3365.8	3516.4	3625.5	3797.8	4143.2
111	3277.7	3399.8	3551.4	3661.2	3834.8	4182.8
112	3310.9	3433.8	3586.5	3697.0	3871.7	4222.3
113	3344.2	3467.9	3621.5	3732.8	3908.7	4261.9
114	3377.6	3502.0	3656.6	3768.5	3945.7	4301.5
115	3410.9	3536.1	3691.6	3804.3	3982.7	4341.0
116	3444.2	3570.2	3726.7	3840.1	4019.7	4380.6
117	3477.6	3604.3	3761.8	3875.9	4056.7	4420.2
118	3511.0	3638.4	3796.9	3911.8	4093.7	4459.8
119	3544.4	3672.6	3832.0	3947.6	4130.7	4499.4
120	3577.8	3706.7	3867.1	3983.4	4167.7	4539.0
121	3611.2	3740.9	4902.2	4019.3	4204.8	4578.6
122	3644.6	3775.1	3937.4	4055.1	4241.8	4618.2
123	3678.1	3809.3	3972.5	4091.0	4278.9	4657.8
124	3711.6	3843.5	4007.7	4126.9	4315.9	4697.4
125	3745.0	3877.7	4042.8	4162.7	4353.0	4737.0
126	3778.5	3911.9	4078.0	4198.6	4390.1	4776.6

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 7 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
127	3812.0	3946.2	4113.2	4234.5	4427.1	4816.2
128	3845.6	3980.4	4148.4	4270.4	4464.2	4855.9
129	3879.1	4014.7	4183.6	4306.4	4501.3	4895.5
130	3912.7	4049.0	4218.8	4342.3	4538.4	4935.1
131	3946.2	4083.2	4254.0	4378.2	4575.5	4974.7
132	3979.8	4117.5	4289.3	4414.2	4612.6	5014.4
133	4013.4	4151.9	4324.5	4450.1	4649.7	5054.0
134	4047.0	4186.2	4359.8	4486.1	4686.8	5093.7
135	4080.6	4220.5	4395.0	4522.0	4724.0	5133.3
136	4114.2	4254.9	4430.3	4558.0	4761.1	5173.0
137	4147.9	4289.2	4465.6	4594.0	4798.2	5212.6
138	4181.5	4323.6	4500.9	4629.9	4835.4	5252.3
139	4215.2	4358.0	4536.1	4665.9	4872.5	5291.9
140	4248.9	4392.3	4571.4	4701.9	4909.7	5331.6
141	4282.6	4426.7	4606.8	4737.9	4946.8	5371.3
142	4316.3	4461.1	4642.1	4773.9	4984.0	5411.0
143	4350.0	4495.6	4677.4	4810.0	5021.1	5450.6
144	4383.7	4530.0	4712.7	4846.0	5058.3	5490.3
145	4417.4	4564.4	4748.1	4882.0	5095.5	5530.0
146	4451.2	4598.9	4783.4	4918.1	5132.7	5569.7
147	4484.9	4633.3	4818.8	4954.1	5169.8	5609.3

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 8 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
148	4518.7	4667.8	4854.2	4990.1	5207.0	5649.0
149	4552.5	4702.3	4889.5	5026.2	5244.2	5688.7
150	4586.3	4736.7	4924.9	5062.3	5281.4	5728.4
151	4620.1	4771.2	4960.3	5098.3	5318.6	5768.1
152	4653.9	4805.7	4995.7	5134.4	5355.8	5807.8
153	4687.7	4840.2	5031.1	5170.5	5393.1	5847.5
154	4721.5	4874.8	5066.5	5206.6	5430.3	5887.2
155	4755.4	4909.3	5101.9	5242.7	5467.5	5926.9
156	4789.2	4943.8	5137.3	5278.8	5504.7	5966.6
157	4823.1	4978.4	5172.8	5314.9	5541.9	6006.3
158	4857.0	5012.9	5208.2	5351.0	5579.2	6046.0
159	4890.8	5047.5	5243.6	5387.1	5616.4	6085.7
160	4924.7	5082.0	5279.1	5423.2	5653.7	6125.4
161	4958.6	5116.6	5314.6	5459.3	5690.9	
162	4992.5	5151.2	5350.0	5495.5	5728.2	
163	5026.5	5185.8	5385.5	5531.6	5765.4	
164	5060.4	5220.4	5421.0	5567.7	5802.7	
165	5094.3	5255.0	5456.4	5603.9	5839.9	

Table 4
Service facility use—with no queuing (ERLANG B) (IN CCS) (Part 9 of 9)

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
166	5128.3	5289.6	5491.9	5640.0	5877.2	
167	5162.2	5324.2	5527.4	5676.2	5914.5	
168	5196.2	5358.9	5562.9	5712.4	5951.7	
169	5230.2	5393.5	5598.4	5748.5	5989.0	
170	5264.1	5428.1	5633.9	5784.7	6026.3	
171	5298.1	5462.8	5669.4	5820.9	6063.6	
172	5332.1	5497.5	5705.0	5857.1	6100.9	
173	5366.1	5532.1	5740.5	5893.2	6138.2	
174	5400.2	5566.8	5776.0	5929.4	6175.5	
175	5434.2	5601.5	5811.6	5965.6	6212.8	

Table 5**Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 1 of 8)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.2	12.0	15.4	18.0	24.0	23.8
2	32.2	41.6	47.1	50.9	58.8	64.4
3	61.9	74.1	80.9	85.3	94.2	100.2
4	93.3	107.6	115.3	120.2	129.8	136.1
5	125.8	141.8	150.2	155.4	165.5	172.0
6	158.9	176.3	185.2	190.8	201.3	207.9
7	192.5	211.1	220.5	226.3	237.1	243.9
8	226.4	246.0	255.8	261.8	272.9	279.8
9	260.5	281.1	291.3	297.5	308.8	315.8
10	294.8	316.3	326.8	333.1	344.7	351.7
11	329.3	351.6	362.4	368.9	380.6	387.7
12	363.9	386.9	398.0	404.6	416.5	423.7
13	398.6	422.3	433.6	440.4	452.4	459.7
14	433.5	457.8	469.3	476.1	488.4	495.6
15	468.3	493.2	505.0	511.9	524.3	531.6
16	503.3	528.8	540.7	547.8	560.2	567.6
17	528.3	564.3	576.5	583.6	596.2	603.6
18	573.4	599.9	612.2	619.4	632.1	639.6
19	608.6	635.5	648.0	655.3	668.1	675.6
20	643.8	671.2	683.8	691.2	704.0	711.5
21	679.0	706.8	719.6	727.0	740.0	747.5

Table 5
Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 2 of 8)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
22	714.3	742.5	755.4	762.9	776.0	783.5
23	749.6	778.2	791.2	798.8	811.9	819.5
24	784.9	813.9	827.1	834.7	847.9	855.5
25	820.3	849.6	862.9	870.6	883.9	891.5
26	855.6	885.4	898.8	906.5	919.8	927.5
27	891.0	921.1	934.6	942.4	955.8	963.5
28	926.5	956.9	970.5	978.3	991.8	999.5
29	961.9	992.6	1006.4	1014.2	1027.7	1035.5
30	997.4	1028.4	1042.2	1050.2	1063.7	1071.5
31	1032.9	1064.2	1078.1	1086.1	1099.7	1107.5
32	1068.4	1100.0	1114.0	1122.0	1135.7	1143.4
33	1103.9	1135.8	1149.9	1157.9	1171.7	1179.4
34	1139.5	1171.6	1185.8	1193.9	1207.6	1215.4
35	1175.0	1207.4	1221.7	1229.8	1243.6	1251.4
36	1210.6	1243.2	1257.6	1265.7	1279.6	1287.4
37	1246.2	1297.1	1293.5	1301.7	1316.5	1323.4
38	1281.8	1314.9	1329.4	1337.6	1351.6	1359.4
39	1317.4	1350.7	1365.3	1373.6	1387.5	1395.4
40	1353.0	1386.6	1401.2	1409.5	1423.5	1431.4
41	1388.6	1422.4	1437.1	1445.5	1459.4	1467.4
42	1424.2	1458.3	1473.0	1481.4	1495.5	1503.4

Table 5
Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 3 of 8)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
43	1459.9	1494.1	1509.0	1517.4	1531.5	1539.4
44	1495.5	1530.0	1544.9	1553.3	1567.5	1575.4
45	1531.2	1565.8	1580.8	1589.3	1603.4	1611.4
46	1566.8	1601.7	1616.8	1625.2	1639.4	1647.4
47	1602.5	1637.6	1652.7	1661.2	1675.4	1683.4
48	1638.2	1673.5	1688.6	1697.1	1711.4	1719.4
49	1673.9	1709.3	1724.5	1733.1	1747.4	1755.4
50	1709.6	1745.2	1760.5	1769.0	1783.4	1791.4
51	1745.3	1781.1	1796.4	1805.0	1819.4	1827.4
52	1781.0	1817.0	1832.4	1841.0	1855.4	1863.4
53	1816.7	1852.9	1868.3	1876.9	1891.3	1899.4
54	1852.5	1888.8	1904.2	1912.9	1927.3	1935.4
55	1888.2	1924.6	1940.2	1948.9	1963.3	1971.3
56	1923.9	1960.5	1976.1	1984.8	1999.3	2007.3
57	1959.7	1996.4	2012.1	2020.8	2035.3	2043.3
58	1995.4	2032.3	2048.0	2056.8	2071.3	2079.3
59	2031.2	2068.2	2084.0	2092.7	2107.3	2115.3
60	2066.9	2104.1	2119.9	2128.7	2143.3	2151.3
61	2102.7	2140.1	2155.9	2164.7	2179.3	2187.3
62	2138.4	2175.9	2191.8	2200.6	2215.3	2223.3
63	2174.2	2211.9	2227.8	2236.6	2251.3	2259.3

Table 5
Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 4 of 8)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
64	2209.9	2247.8	2263.7	2272.6	2287.2	2295.3
65	2245.8	2283.7	2299.7	2308.5	2323.2	2331.3
66	2218.5	2319.6	2335.6	2344.5	2359.2	2367.3
67	2317.3	2355.5	2371.6	2380.5	2395.2	2403.3
68	2353.1	2391.4	2407.5	2416.5	2431.2	2439.3
69	2388.9	2427.3	2443.5	2452.4	2467.2	2475.3
70	2424.7	2463.3	2479.4	2488.4	2503.2	2511.3
71	2460.5	2499.2	2515.4	2524.4	2539.2	2547.3
72	2496.3	2535.1	2551.4	2560.4	2575.2	2583.3
73	2531.1	2571.0	2587.3	2596.3	2611.2	2619.3
74	2567.9	2607.0	2623.3	2632.3	2647.2	2655.3
75	2603.7	2642.9	2659.2	2668.3	2683.2	2691.3
76	2639.5	2678.8	2695.2	2704.3	2719.2	2727.3
77	2675.3	2714.7	2731.2	2740.2	2755.1	2763.3
78	2711.1	2750.7	2767.1	2776.2	2791.1	2799.3
79	2746.9	2786.6	2803.1	2812.2	2827.1	2835.3
80	2782.7	2822.5	2839.1	2848.2	2863.1	2871.3
81	2818.6	2858.5	2875.0	2384.1	2899.1	2907.3
82	2854.4	2894.4	2911.0	2920.1	2935.1	2943.3
83	2890.2	2930.4	2947.0	2956.1	2971.1	2979.3
84	2926.1	2966.3	2982.9	2992.1	3007.1	3015.3

Table 5
Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 5 of 8)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
85	2961.9	3002.2	3018.9	3028.1	3043.1	3051.3
86	2997.7	3038.2	3054.9	3064.0	3079.1	3087.3
87	3033.6	3074.1	3090.8	3100.0	3115.1	3123.3
88	3069.4	3110.0	3126.8	3136.0	3151.1	3159.3
89	3105.2	3146.0	3162.8	3172.0	3187.1	3195.3
90	3141.1	3181.9	3198.7	3208.0	3223.1	3231.3
91	3176.9	3217.9	3234.7	3243.9	3259.1	3267.3
92	3212.8	3253.8	3270.7	3279.9	3295.1	3303.3
93	3248.7	3289.8	3306.6	3315.9	3331.1	3339.3
94	3284.5	3325.7	3342.6	3351.9	3367.0	3375.3
95	3320.3	3361.6	3378.6	3387.9	3403.0	3411.3
96	3356.2	3397.6	3414.6	3423.9	3439.0	3447.3
97	3392.1	3433.6	3450.5	3459.8	3475.0	3483.3
98	3427.9	3469.5	3486.5	3495.8	3511.0	3919.3
99	3463.8	3505.4	3522.5	3531.8	3547.0	3555.3
100	3499.6	3541.4	3558.5	3567.8	3583.0	3591.3
101	3535.5	3577.3	3594.4	3603.8	3619.0	3627.3
102	3571.4	3613.3	3630.4	3639.8	3655.0	3663.3
103	3607.3	3649.2	3666.4	3675.7	3691.0	3699.3
104	3643.1	3685.2	3702.3	3711.7	3727.0	3735.3
105	3679.0	3721.1	3738.3	3747.7	3763.0	3771.3

Table 5
Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 6 of 8)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
106	3714.8	3757.1	3774.3	3783.7	3799.0	3807.3
107	3750.7	3793.1	3810.3	3819.7	3835.0	3843.3
108	3786.6	3829.0	3846.3	3855.7	3871.0	3879.3
109	3822.5	3865.0	3882.2	3891.7	3907.0	3915.3
110	3858.3	3900.9	3918.2	3927.6	3943.0	3951.3
111	3894.2	3936.9	3954.2	3963.6	3979.0	3987.3
112	3930.1	3972.8	3990.2	3999.6	4015.0	4023.3
113	3966.0	4008.8	4026.1	4035.6	4051.0	4059.2
114	4001.9	4044.7	4062.1	4071.6	4087.0	4095.2
115	4037.8	4080.7	4098.1	4107.6	4123.0	4131.2
116	4073.6	4116.6	4134.1	4143.6	4158.9	4167.2
117	4109.5	4152.1	4170.1	4179.5	4194.9	4203.2
118	4145.4	4188.6	4206.0	4215.5	4230.9	4239.2
119	4181.3	4224.5	4242.0	4251.5	4266.9	4275.2
120	4217.2	4260.5	4278.0	4287.5	4302.9	4311.2
121	4253.1	4296.4	4314.0	4323.5	4338.9	4347.2
122	4289.0	4332.4	4349.9	4359.5	4374.9	4383.2
123	4324.9	4368.4	4385.9	4395.5	4410.9	4419.2
124	4360.7	4404.3	4421.9	4431.5	4446.9	4455.2
125	4396.6	4440.3	4457.9	4467.4	4482.0	4491.2
126	4432.5	4476.3	4493.9	4503.4	4518.9	4527.2

Table 5**Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 7 of 8)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
127	4468.4	4512.2	4529.9	4539.4	4554.9	4563.2
128	4504.3	4548.2	4565.8	4575.4	4590.9	4599.2
129	4540.2	4584.1	4601.8	4611.4	4626.9	4635.2
130	4576.1	4620.1	4637.8	4647.4	4662.9	4671.2
131	4612.0	4656.1	4673.8	4783.4	4698.9	4707.2
132	4647.9	4692.0	4709.8	4719.4	4734.9	4743.2
133	4683.8	4728.0	4745.7	4755.4	4770.9	4779.2
134	4719.8	4764.0	4781.7	4791.3	4806.9	4815.2
135	4755.6	4799.9	4817.7	4827.3	4842.9	4851.2
136	4791.6	4835.9	4853.7	4863.3	4878.0	4887.2
137	4827.4	4871.9	4889.7	4899.3	4914.9	4923.2
138	4863.3	4907.8	4925.7	4935.3	4950.9	4959.2
139	4899.2	4943.8	4961.6	4971.3	4986.9	4995.2
140	4935.2	4979.8	4997.6	5007.3	5022.9	5031.2

Table 5
Service facility use—with queuing (ERLANG C) (in CCS) (delay over all calls) (Part 8 of 8)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
141	4971.1	5015.7	5033.6	5043.3	5058.9	5067.2
142	5007.0	5051.7	5069.6	5079.3	5094.9	5103.2
143	5042.9	5087.7	5105.6	5115.3	5130.9	5139.2
144	5078.8	5123.6	5141.5	5151.2	5166.9	5175.2
145	5114.7	5159.6	5177.5	5187.2	5202.9	5211.2
146	5150.6	5195.6	5213.5	5223.2	5238.9	5247.2
147	5186.5	5231.5	5249.5	5259.2	5274.9	5283.2
148	5222.5	5267.5	5285.5	5295.2	5310.9	5319.2
149	5258.4	5303.5	5321.5	5331.2	5346.8	5355.2
150	5294.3	5339.4	5357.5	5367.2	5382.8	5391.2

Table 6
Service facility use—finite source with no queuing (ENGSET) (in CCS); number in source = 5

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.5	0.9	1.4	2.3	4.9
2	5.4	7.7	11.1	13.8	18.3	27.6
3	20.2	25.7	33.0	38.4	46.6	62.1
4	47.9	57.1	68.2	75.9	87.2	107.3

Table 7

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 10**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.2	2.1	4.4
2	4.4	6.4	9.3	11.7	15.7	24.1
3	15.3	19.8	25.9	30.5	37.8	52.2
4	32.1	39.3	48.5	55.2	65.5	85.1
5	54.1	63.7	75.8	84.4	97.4	121.5
6	80.9	92.9	107.4	117.6	132.9	160.8
7	112.9	126.9	143.5	155.0	172.1	203.1
8	151.3	167.0	185.2	197.6	215.9	249.2
9	200.4	217.1	236.2	248.9	267.7	302.1

Table 8

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 15**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.2	2.0	4.3
2	4.2	6.1	8.8	11.1	15.0	23.1
3	14.3	18.5	24.3	28.7	35.8	49.8
4	29.4	36.1	44.9	51.3	61.4	80.7
5	48.5	57.6	69.1	77.5	90.3	114.4
6	70.9	82.3	96.4	106.4	121.7	150.1
7	96.5	109.9	126.3	137.8	155.2	187.5
8	124.7	140.0	158.4	171.3	190.6	226.4
9	155.8	172.6	192.8	206.8	227.8	266.6
10	189.7	207.9	229.6	244.5	266.9	308.3
11	226.7	246.2	268.9	284.6	308.0	351.6
12	267.9	288.1	311.6	327.6	351.8	397.1
13	314.4	335.0	358.7	375.0	399.3	445.7
14	371.1	391.4	414.6	430.4	454.3	500.6

Table 9

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 20**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.2	2.0	4.2
2	4.1	5.9	8.6	10.8	14.6	22.7
3	13.8	17.9	23.6	27.9	34.8	48.7
4	28.2	34.7	43.3	49.6	59.6	78.7
5	46.2	55.1	66.4	74.6	87.3	111.4
6	67.1	78.2	92.1	102.0	117.3	145.8
7	90.6	103.7	119.9	131.4	149.0	181.7
8	116.2	131.2	149.6	162.5	182.2	218.6
9	143.8	160.5	180.9	195.1	216.6	256.6
10	173.2	191.6	213.6	229.0	252.3	295.5
11	204.4	224.2	247.8	264.2	289.0	335.2
12	237.4	258.5	283.4	300.7	326.8	375.7
13	272.3	294.4	320.5	338.5	365.8	417.1
14	309.2	332.2	359.1	377.8	406.0	459.4
15	348.4	371.9	399.6	418.7	447.6	502.8
16	390.3	414.2	442.2	461.6	491.0	547.6
17	435.7	459.7	487.7	507.1	536.7	594.3
18	486.2	509.9	537.5	556.5	585.9	644.0
19	546.9	569.5	595.7	614.0	642.4	699.8

Table 10

**Service facility use—finite source with no queuing (ENGSET) (in CCS);
number in source = 25**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.2	2.0	4.1
2	4.0	5.8	8.5	10.7	14.4	22.4
3	13.5	17.6	23.2	27.4	34.3	48.1
4	27.5	34.0	42.4	48.7	58.5	77.6
5	45.0	53.7	64.9	73.0	85.7	109.7
6	65.1	76.1	89.8	99.6	114.8	143.4
7	87.5	100.5	116.6	128.1	145.6	178.5
8	111.9	126.8	145.1	158.0	177.8	214.6
9	137.9	154.6	174.9	189.2	211.0	251.6
10	165.4	183.7	206.0	221.5	245.2	289.3
11	194.3	214.2	238.1	254.9	280.3	327.6
12	224.6	245.9	271.4	289.2	316.1	366.5
13	256.2	278.7	305.6	324.4	352.8	406.1
14	289.1	312.7	340.9	360.4	390.2	446.1
15	323.1	347.8	377.1	397.4	428.3	486.7
16	358.6	384.1	414.3	435.3	467.2	527.9
17	395.5	421.7	452.6	474.1	506.0	569.7
18	433.9	460.6	492.1	514.1	547.6	612.2
19	474.0	501.0	533.0	555.2	589.3	655.5
20	516.2	543.3	575.4	597.8	632.3	699.8

Table 11

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 30 (Part 1 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.2	2.0	4.1
2	4.0	5.8	8.5	10.6	14.3	22.2
3	13.3	17.4	22.9	27.1	34.0	47.6
4	27.1	33.5	41.9	48.1	57.9	76.9
5	44.2	52.8	63.9	72.0	84.6	108.6
6	63.9	74.7	88.3	98.2	113.3	142.0
7	85.7	98.5	114.6	126.0	143.6	176.6
8	109.2	124.0	142.3	155.3	175.1	212.1
9	134.3	151.0	171.3	185.7	207.6	248.5
10	160.8	179.1	201.4	217.1	241.0	285.6
11	188.5	208.4	232.5	249.4	275.1	323.2
12	217.4	238.7	264.5	282.6	310.0	361.3
13	247.4	270.0	297.4	316.5	345.5	399.9
14	278.2	302.2	331.0	351.1	381.6	439.0
15	310.2	335.2	365.3	386.3	418.2	478.4

Table 11

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 30 (Part 2 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
16	343.0	369.2	400.4	422.2	455.4	518.2
17	376.9	404.0	436.3	458.8	493.2	558.5
18	411.7	439.6	472.8	496.1	531.5	599.1
19	447.5	476.2	510.2	533.9	570.3	640.2
20	484.4	513.6	548.3	572.6	609.8	681.6
21	522.4	552.1	587.3	611.9	649.9	723.6
22	561.5	591.6	627.2	652.2	690.7	766.1
23	602.2	632.4	668.2	693.3	732.3	809.2
24	644.4	674.5	710.3	735.5	774.0	853.1
25	688.3	718.3	754.0	779.2	818.6	897.9

Table 12

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 35 (Part 1 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.1	1.9	4.1
2	4.0	5.7	8.4	10.5	14.2	22.1
3	13.2	17.2	22.7	26.9	33.7	47.4
4	26.8	33.2	41.5	47.7	57.4	76.4
5	43.7	52.2	63.3	71.3	83.9	107.9
6	63.0	73.8	87.3	97.1	112.3	140.9
7	84.4	97.2	113.2	124.6	142.2	175.2
8	107.5	122.2	140.4	153.4	173.2	210.5
9	132.0	148.5	168.0	183.3	205.3	246.4
10	157.8	176.1	198.4	214.1	238.2	283.1
11	184.7	204.6	228.8	245.8	271.7	320.3
12	212.7	234.1	260.0	278.2	306.0	357.9
13	241.6	264.4	292.0	311.3	340.8	396.0
14	271.4	295.6	324.7	345.1	376.1	434.4
15	302.1	327.4	358.0	379.3	411.9	473.2
16	333.5	360.0	391.9	414.2	448.1	512.3
17	365.8	393.3	426.4	449.5	484.8	551.7
18	398.7	427.3	461.5	485.4	521.9	591.5
19	432.5	461.9	497.1	521.8	559.5	631.5
20	467.0	497.3	533.4	558.7	597.4	671.8

Table 12

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 35 (Part 2 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
21	502.3	533.2	570.2	596.1	635.8	712.5
22	538.4	569.9	607.6	634.0	674.6	753.4
23	575.2	607.3	645.5	672.4	713.9	794.7
24	712.9	645.5	684.2	711.5	753.6	836.3
25	651.7	684.4	723.5	751.1	793.9	878.3
26	691.4	724.3	763.6	791.4	834.8	920.8
27	732.1	765.2	804.6	832.5	876.2	963.7
28	774.2	807.1	846.5	874.5	918.5	1007.2
29	817.7	850.4	889.6	917.5	961.7	1051.5
30	863.0	895.3	934.1	961.8	1005.9	1096.6

Table 13

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 40 (Part 1 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.1	1.9	4.1
2	3.9	5.7	8.3	10.5	14.2	22.0
3	13.2	17.1	22.6	26.8	33.6	47.2
4	26.6	32.9	41.2	47.3	57.1	76.1
5	43.3	51.8	62.8	70.8	83.3	107.3
6	62.4	73.1	86.6	96.4	111.5	140.2
7	83.5	96.2	112.1	123.5	141.1	174.2
8	106.2	120.8	139.1	152.0	171.9	209.2
9	130.3	146.8	167.1	181.6	203.6	245.0
10	155.6	173.8	196.2	212.0	236.1	281.3
11	182.0	201.9	226.1	243.2	269.3	318.2
12	209.3	230.8	256.8	275.2	303.1	355.5
13	237.6	260.5	288.2	307.7	337.5	393.2
14	266.7	290.9	320.3	340.9	372.2	431.2
15	296.5	322.0	352.9	374.5	407.5	469.6
16	327.0	353.7	386.0	408.7	443.1	508.3
17	358.2	386.1	419.7	443.3	479.2	547.2
18	390.1	419.1	453.9	478.3	515.6	586.4
19	422.6	452.5	488.5	513.8	552.3	625.8
20	455.7	486.6	523.7	549.6	589.4	665.5

Table 13

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 40 (Part 2 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
21	489.5	521.1	559.2	585.9	626.9	705.4
22	523.8	556.3	595.3	622.6	664.6	745.5
23	558.8	592.0	631.7	659.7	702.7	785.9
24	594.4	628.2	668.7	697.1	741.1	826.5
25	630.6	665.0	706.1	735.1	779.8	867.4
26	667.6	702.3	744.0	773.4	819.0	908.5
27	705.1	740.3	782.4	812.2	858.5	949.9
28	743.5	778.9	821.3	851.5	898.4	991.6
29	782.5	818.2	860.9	891.2	938.7	1033.6
30	822.6	858.2	901.1	931.6	979.6	1076.0
31	863.4	899.1	941.9	972.6	1020.9	1118.7
32	905.3	940.9	983.7	1014.3	1062.9	1162.0
33	948.4	983.7	1026.3	1056.9	1105.6	1205.8
34	993.0	1027.9	1070.0	1100.4	1149.1	1250.3
35	1039.3	1073.5	1115.1	1145.3	1193.8	1295.6

Table 14

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 45 (Part 1 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.8	1.1	1.9	4.1
2	3.9	5.7	8.3	10.4	14.1	22.0
3	13.1	17.0	22.5	26.6	33.4	47.0
4	26.5	32.7	41.0	47.1	56.8	75.8
5	43.0	41.5	62.4	70.4	82.9	106.9
6	61.9	72.6	86.0	95.8	110.9	139.6
7	82.8	95.4	111.4	122.8	140.4	173.5
8	105.2	119.9	138.0	151.0	170.9	208.3
9	129.0	145.5	165.8	180.2	202.4	243.8
10	154.0	172.2	194.6	210.4	234.6	280.0
11	179.9	199.9	224.1	241.3	267.5	316.6
12	206.9	228.4	254.5	272.9	301.0	353.7
13	234.6	257.6	285.5	305.1	335.0	391.1
14	263.1	287.5	317.0	337.8	369.4	428.9
15	292.4	318.1	349.2	371.0	404.3	467.0
16	322.3	349.2	381.8	404.6	439.5	505.3
17	352.7	380.9	414.9	438.7	475.1	543.9
18	383.9	413.2	448.4	473.2	511.0	582.7
19	415.5	445.9	482.4	508.0	547.2	621.8
20	447.6	479.0	516.8	543.2	583.8	661.0

Table 14

**Service facility use—finite source with no queuing (ENGSET) (in CCS);
number in source = 45 (Part 2 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
21	480.5	512.7	551.5	578.8	620.6	700.5
22	513.8	546.9	586.7	614.7	657.6	740.1
23	547.5	581.5	622.2	560.9	695.0	780.0
24	581.8	616.5	658.1	687.4	732.6	820.0
25	616.6	652.0	694.4	724.3	770.5	860.2
26	652.0	687.8	731.1	761.6	808.7	900.6
27	687.8	724.2	768.1	799.1	847.1	941.2
28	724.1	761.1	805.6	837.0	885.9	982.0
29	761.1	798.5	843.4	875.2	924.9	1023.0
30	798.5	836.3	881.6	913.9	964.2	1064.2
31	836.6	874.6	920.3	952.8	1003.8	1105.6
32	875.3	913.4	959.5	992.2	1043.8	1147.4
33	914.8	953.0	999.1	1032.1	1084.2	1189.3
34	954.8	993.0	1039.4	1072.5	1125.0	1231.6
35	995.7	1033.9	1080.1	1113.3	1166.2	1274.2
36	1037.5	1075.4	1121.6	1154.8	1207.9	1317.2
37	1080.2	1118.0	1163.8	1197.0	1250.2	1360.6
38	1124.4	1161.5	1207.0	1240.0	1293.3	1404.7
39	1169.6	1206.3	1251.2	1284.0	1337.1	1449.4
40	1216.6	1252.6	1296.7	1329.1	1382.1	1494.9

Table 15

**Service facility use—finite source with no queuing (ENGSET) (In CCS);
number in source = 50 (Part 1 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
1	0.2	0.4	0.7	1.1	1.9	4.1
2	3.9	5.6	8.3	10.4	14.1	21.9
3	13.0	17.0	22.4	26.6	33.3	46.9
4	26.3	32.6	40.8	46.9	56.6	75.6
5	42.7	51.2	62.1	70.1	82.6	106.6
6	61.5	72.1	85.6	95.3	110.5	139.1
7	82.2	94.9	110.7	122.1	139.7	172.9
8	104.5	119.0	137.2	150.2	170.1	207.6
9	128.0	144.5	164.8	179.2	201.4	243.0
10	152.7	170.9	193.3	209.2	233.4	278.9
11	178.4	198.3	222.6	239.8	266.1	315.4
12	205.0	226.5	252.7	271.1	299.3	352.3
13	232.3	255.3	283.3	303.0	333.1	389.5
14	260.5	284.9	314.5	335.4	367.3	427.1
15	289.3	315.0	346.3	368.3	401.8	464.9
16	318.6	345.7	378.5	401.6	436.7	503.0
17	348.6	376.9	411.2	435.2	472.0	541.4
18	379.1	408.7	444.2	469.3	507.5	580.0
19	410.2	440.8	477.7	503.7	543.4	618.7
20	441.7	473.4	511.6	538.4	579.5	657.7

Table 15

**Service facility use—finite source with no queuing (ENGSET) (in CCS);
number in source = 50 (Part 2 of 2)**

Number	Grade of service (GOS)—traffic offered					
	0.005	0.010	0.020	0.030	0.050	0.100
21	473.8	506.5	545.8	573.5	615.9	696.8
22	506.3	539.9	580.4	608.8	652.5	736.2
23	539.3	573.7	615.2	644.5	689.3	775.7
24	572.7	608.0	650.4	680.4	726.5	815.3
25	606.4	642.5	686.0	716.6	763.8	855.1
26	640.8	677.5	721.9	753.1	801.3	895.0
27	675.4	712.9	758.0	789.8	839.1	935.1
28	710.6	748.6	794.5	826.9	877.1	975.4
29	746.2	784.8	831.3	864.2	915.3	1015.8
30	782.1	821.2	868.4	901.8	953.8	1056.4
31	818.6	858.1	905.8	939.6	992.4	1097.1
32	855.6	895.5	943.6	977.8	1031.4	1138.0
33	892.9	933.1	981.7	1016.3	1070.6	1179.1
34	930.8	971.3	1020.2	1055.1	1110.0	1220.3
35	969.3	1009.9	1059.0	1094.2	1149.7	1261.8
36	1008.3	1049.0	1098.3	1133.7	1189.8	1303.5
37	1047.7	1088.5	1138.0	1173.6	1230.1	1345.4
38	1088.0	1128.7	1178.2	1213.9	1270.8	1387.0
39	1128.9	1169.5	1218.9	1254.6	1311.9	1430.0
40	1170.5	1210.8	1260.2	1295.9	1353.4	1472.9

Table 16**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 5**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	9.5	16.5	21.8	25.9	34.0	36.0
2	48.6	62.4	68.7	71.2	72.0	72.0
3	97.9	107.4	108.0	108.0	108.0	108.8
4	143.8	144.0	144.0	144.0	144.0	144.0

Table 17**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 10**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	8.2	14.0	18.8	21.6	29.9	35.2
2	39.4	51.9	59.3	64.1	71.2	71.9
3	78.8	94.5	102.0	105.6	108.0	108.0
4	121.6	137.2	142.4	143.8	144.0	144.0
5	165.4	177.9	179.9	179.9	180.0	180.0
6	208.6	215.8	216.0	216.0	216.0	216.0
7	250.0	252.0	252.0	252.0	252.0	252.0
8	287.9	288.0	288.0	288.0	288.0	288.0
9	324.0	324.0	324.0	324.0	324.0	324.0

Table 18

Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 15

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.8	13.3	17.8	20.4	28.1	34.0
2	36.8	48.4	55.5	60.3	69.3	72.0
3	72.9	88.3	96.7	101.6	107.7	108.0
4	112.3	129.6	137.6	141.4	144.0	144.0
5	153.2	170.7	177.2	179.4	180.0	180.0
6	194.9	210.9	215.2	216.0	216.0	216.0
7	236.6	249.8	251.9	252.0	252.0	252.0
8	277.9	287.4	288.0	288.0	288.0	288.0
9	318.3	324.0	324.0	324.0	324.0	324.0
10	357.7	359.8	360.0	360.0	360.0	360.0
11	395.6	396.0	396.0	396.0	396.0	396.0

Table 19**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 20**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.7	12.9	16.8	19.8	27.2	38.1
2	35.6	46.7	53.5	58.3	67.7	71.8
3	70.1	85.0	93.4	98.7	106.8	108.0
4	107.6	125.0	133.9	138.7	143.9	144.0
5	146.8	165.5	173.7	177.6	180.0	180.0
6	186.9	205.7	212.7	215.2	216.0	216.0
7	227.5	245.3	250.6	251.8	252.0	252.0
8	268.1	284.1	287.6	288.0	288.0	288.0
9	308.7	322.1	323.9	324.0	324.0	324.0
10	348.9	359.3	360.0	360.0	360.0	360.0
11	388.5	395.8	396.0	396.0	396.0	396.0
12	427.6	432.0	432.0	432.0	432.0	432.0
13	465.9	468.0	468.0	468.0	468.0	468.0
14	503.3	504.0	504.0	504.0	504.0	504.0
15	539.9	540.0	540.0	540.0	540.0	540.0

Table 20
Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 25

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.6	12.8	16.5	19.5	26.6	32.5
2	34.9	45.7	52.3	57.0	66.5	71.5
3	68.4	83.0	91.3	96.7	105.8	108.0
4	104.8	122.1	131.1	136.5	143.4	144.0
5	142.8	161.8	170.9	175.6	179.9	180.0
6	181.8	201.6	210.1	213.8	216.0	216.0
7	221.5	241.2	248.5	251.1	252.0	252.0
8	261.4	280.4	286.2	287.7	288.0	288.0
9	301.4	319.0	323.3	324.0	324.0	324.0
10	341.4	357.0	359.8	360.0	360.0	360.0
11	381.1	394.4	396.0	396.0	396.0	396.0
12	420.6	431.3	432.0	432.0	432.0	432.0
13	459.7	467.8	468.0	468.0	468.0	468.0
14	498.3	504.0	504.0	504.0	504.0	504.0
15	536.5	540.0	540.0	540.0	540.0	540.0
16	574.1	576.0	576.0	576.0	576.0	576.0
17	611.2	612.0	612.0	612.0	612.0	612.0
18	647.8	648.0	648.0	648.0	648.0	648.0

Table 21

Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 30
(Part 1 of 2)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.5	12.6	16.3	19.2	26.2	32.0
2	34.4	45.0	51.5	56.0	65.6	71.1
3	67.3	81.6	89.8	95.2	104.9	107.9
4	102.9	120.0	129.1	134.7	142.9	144.0
5	140.1	159.1	168.6	173.8	179.7	180.0
6	178.4	198.5	207.8	212.3	216.0	216.0
7	217.2	237.9	246.4	250.0	252.0	252.0
8	256.5	277.1	284.5	287.1	288.0	288.0
9	296.0	315.9	322.0	323.7	324.0	324.0
10	335.6	354.3	359.0	359.9	360.0	360.0
11	375.1	392.2	395.6	396.0	396.0	396.0
12	414.5	429.6	431.9	432.0	432.0	432.0

Table 21

**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 30
(Part 2 of 2)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
13	453.7	466.7	468.0	468.0	468.0	468.0
14	492.6	503.4	504.0	504.0	504.0	504.0
15	531.3	539.8	540.0	540.0	540.0	540.0
16	569.6	575.9	576.0	576.0	576.0	576.0
17	607.6	612.0	612.0	612.0	612.0	612.0
18	645.2	648.0	648.0	648.0	648.0	648.0
19	682.4	684.0	684.0	684.0	684.0	684.0
20	719.2	720.0	720.0	720.0	720.0	720.0
21	755.7	756.0	756.0	756.0	756.0	756.0
22	791.9	792.0	792.0	792.0	792.0	792.0

Table 22

Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 35
(Part 1 of 2)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.5	12.5	16.2	19.0	25.9	31.7
2	34.1	44.5	50.9	55.4	64.9	70.7
3	66.5	80.6	88.7	94.1	104.1	107.8
4	101.6	118.4	127.6	133.3	142.3	144.0
5	138.2	157.1	166.7	172.3	179.4	180.0
6	175.8	196.1	205.8	210.9	215.9	216.0
7	214.1	235.3	244.5	248.9	252.0	252.0
8	252.9	274.3	282.8	286.3	288.0	288.0
9	291.9	313.1	320.6	323.2	324.0	324.0
10	331.0	351.6	358.0	359.7	360.0	360.0
11	370.3	389.8	394.9	395.9	396.0	396.0
12	409.5	427.5	431.5	432.0	432.0	432.0
13	448.6	465.1	467.8	468.0	468.0	468.0
14	487.5	502.2	503.9	504.0	504.0	504.0
15	526.3	538.9	540.0	540.0	540.0	540.0

Table 22

**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 35
(Part 2 of 2)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
16	564.9	575.5	576.0	576.0	576.0	576.0
17	603.2	611.8	612.0	612.0	612.0	612.0
18	641.3	647.9	648.0	648.0	648.0	648.0
19	679.1	684.0	684.0	684.0	684.0	684.0
20	716.6	720.0	720.0	720.0	720.0	720.0
21	753.8	756.0	756.0	756.0	756.0	756.0
22	790.7	792.0	792.0	792.0	792.0	792.0
23	827.3	828.0	828.0	828.0	828.0	828.0
24	863.7	864.0	864.0	864.0	864.0	864.0
25	899.9	900.0	900.0	900.0	900.0	900.0

Table 23

Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 40
(Part 1 of 2)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.4	12.5	16.1	18.9	25.7	31.4
2	33.8	44.1	50.5	54.9	64.3	70.4
3	65.9	79.8	87.8	93.2	103.3	107.7
4	100.6	117.2	126.3	132.1	141.7	144.0
5	136.7	155.5	165.2	171.0	179.1	180.0
6	173.9	194.2	204.2	209.6	215.7	216.0
7	211.7	233.1	242.9	247.7	251.9	252.0
8	250.0	272.0	281.2	285.4	288.0	288.0
9	288.6	310.7	319.2	322.5	324.0	324.0
10	327.4	349.3	356.8	359.2	360.0	360.0
11	366.4	387.5	394.0	395.7	396.0	396.0
12	405.3	425.5	430.8	431.9	432.0	432.0
13	444.2	463.4	467.4	468.0	468.0	468.0
14	483.1	500.6	503.7	504.0	504.0	504.0
15	521.9	537.7	539.9	540.0	540.0	540.0
16	560.5	574.5	576.0	576.0	576.0	576.0
17	599.0	611.1	612.0	612.0	612.0	612.0
18	637.2	647.5	648.0	648.0	648.0	648.0

Table 23

**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 40
(Part 2 of 2)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
19	675.3	683.8	684.0	684.0	684.0	684.0
20	713.1	719.9	720.0	720.0	720.0	720.0
21	750.7	756.0	756.0	756.0	756.0	765.0
22	788.1	792.0	792.0	792.0	792.0	792.0
23	825.3	828.0	828.0	828.0	828.0	828.0
24	862.2	864.0	864.0	864.0	864.0	864.0
25	898.9	900.0	900.0	900.0	900.0	900.0
26	935.4	936.0	936.0	936.0	936.0	936.0
27	971.7	972.0	972.0	972.0	972.0	972.0
28	1007.9	1008.0	1008.0	1008.0	1008.0	1008.0

Table 24

Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 45
(Part 1 of 2)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.4	12.4	16.0	18.8	25.5	31.2
2	33.7	43.8	50.1	54.5	63.8	70.1
3	65.5	79.2	87.1	92.4	102.7	107.6
4	99.8	116.3	125.3	131.1	141.1	144.0
5	135.6	154.2	164.0	169.9	178.6	180.0
6	172.3	192.6	202.7	208.5	215.5	216.0
7	209.8	231.3	241.4	246.7	251.9	252.0
8	247.7	270.0	279.8	284.4	288.0	288.0
9	286.0	308.6	317.8	321.8	324.0	324.0
10	324.5	347.1	355.6	358.7	360.0	360.0
11	363.1	385.5	393.0	395.3	396.0	396.0
12	401.9	423.6	430.0	431.7	432.0	432.0
13	440.6	461.4	466.8	467.9	468.0	468.0
14	479.3	499.0	503.3	504.0	504.0	504.0
15	518.0	536.3	539.6	540.0	540.0	540.0
16	556.6	573.4	575.8	576.0	576.0	576.0
17	595.1	610.2	611.9	612.0	612.0	612.0
18	633.4	646.9	648.0	648.0	648.0	648.0
19	671.6	683.3	684.0	684.0	684.0	684.0
20	709.6	719.6	720.0	720.0	720.0	720.0

Table 24

**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 45
(Part 2 of 2)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
21	747.4	755.8	756.0	756.0	756.0	756.0
22	785.1	791.9	792.0	792.0	792.0	792.0
23	822.6	828.0	828.0	828.0	828.0	828.0
24	859.8	864.0	864.0	864.0	864.0	864.0
25	896.9	900.0	900.0	900.0	900.0	900.0
26	933.8	936.0	936.0	936.0	936.0	936.0
27	970.5	972.0	972.0	972.0	972.0	972.0
28	1007.1	1008.0	1008.0	1008.0	1008.0	1008.0
29	1043.5	1044.0	1044.0	1044.0	1044.0	1044.0
30	1079.7	1080.0	1080.0	1080.0	1080.0	1080.0

Table 25

Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 50
(Part 1 of 2)

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
1	7.4	12.4	16.0	18.7	25.3	31.0
2	33.5	43.6	49.8	54.1	63.4	69.8
3	65.1	78.7	86.6	91.8	102.2	107.4
4	99.1	115.5	124.5	130.3	140.6	143.9
5	134.6	153.1	163.0	168.9	178.2	180.0
6	171.1	191.3	201.5	207.5	215.2	216.0
7	208.2	229.7	240.1	245.7	251.7	252.0
8	245.8	268.3	278.4	283.5	287.9	288.0
9	283.8	306.8	316.6	321.0	324.0	324.0
10	322.1	345.3	354.4	358.1	360.0	360.0
11	360.4	383.6	391.9	394.9	396.0	396.0
12	399.0	421.7	429.1	431.4	432.0	432.0
13	437.5	459.6	466.1	467.7	468.0	468.0
14	476.1	497.3	502.8	503.9	504.0	504.0
15	514.6	534.8	539.3	540.0	540.0	540.0
16	553.1	572.1	575.6	576.0	576.0	576.0
17	591.6	609.1	611.8	612.0	612.0	612.0
18	629.9	645.9	647.9	648.0	648.0	648.0
19	668.1	682.6	684.0	684.0	684.0	684.0
20	706.2	719.1	720.0	720.0	720.0	720.0

Table 25

**Service facility use—finite source with queuing (ENGSET) (in CCS); number in source = 50
(Part 2 of 2)**

Number	Delay/holding time (D/HT)—traffic offered					
	0.25	0.50	0.75	1.00	2.00	4.00
21	744.2	755.4	756.0	756.0	756.0	756.0
22	782.0	791.7	792.0	792.0	792.0	792.0
23	819.7	827.8	828.0	828.0	828.0	828.0
24	857.2	863.9	864.0	864.0	864.0	864.0
25	894.5	900.0	900.0	900.0	900.0	900.0
26	931.7	936.0	936.0	936.0	936.0	936.0
27	968.7	972.0	972.0	972.0	972.0	972.0
28	1005.6	1008.0	1008.0	1008.0	1008.0	1008.0
29	1042.3	1044.0	1044.0	1044.0	1044.0	1044.0
30	1078.8	1080.0	1080.0	1080.0	1080.0	1080.0
31	1115.2	1116.0	1116.0	1116.0	1116.0	1116.0
32	1151.6	1152.0	1152.0	1152.0	1152.0	1152.0
33	1187.8	1188.0	1188.0	1188.0	1188.0	1188.0
34	1223.9	1224.0	1224.0	1224.0	1224.0	1224.0

Meridian 1

Meridian data features

Traffic engineering and
configuration

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